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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,537	07/29/2003	Sandeep Bhatia	CA7034222001	9252
23639 7590 07/30/2007 BINGHAM MCCUTCHEN LLP Three Embarcadero Center			EXAMINER	
			CHUNG, PHUNG M	
San Francisco, CA 94111-4067			ART UNIT	PAPER NUMBER
			2117	
•	•		MAIL DATE	DELIVERY MODE
			07/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Paper No(s)/Mail Date. _

6) Other: __

5) Notice of Informal Patent Application

Paper No(s)/Mail Date
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

Period for Reply

Disposition of Claims

Application Papers

Status

Application/Control Number: 10/630,537

Art Unit: 2117

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 24-27 and 42-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 24, lines 1-2, "An article of manufacture comprising:

A computer readable medium storing a computer program comprising:" multiple using of "comprising" is confusing. It is not clear whether the "An article of manufacture comprising." or the "An article of manufacture comprising:

A computer readable medium storing a computer program comprising:" or the "a computer program comprising:" is the preamble of the claim;

Line 2, "a computer readable medium storing a computer program comprising:" is not clear whether the "computer readable medium comprising:" or the "computer program comprising:". Appropriate correction and/or clarification is required.

As per claims 25-27, these claims are also rejected because they dependent upon the rejected base claim.

As per claim 42, lines 1-2, "An article of manufacture comprising:

A computer readable medium storing a computer program comprising:" multiple using of "comprising" is confusing. It is not clear whether the "An article of manufacture comprising:" or the "An article of manufacture comprising:

A computer readable medium storing a computer program comprising:" or "a computer program comprising:" is the preamble of the claim; and

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Line 2, "a computer readable medium storing a computer program comprising:" is not clear whether the "computer readable medium comprising:" or the "computer program comprising:". Appropriate correction and/or clarification is required.

As per claims 43-46, these claims are also rejected because they dependent upon the rejected base claim.

Drawings

2. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Figure 1 should be labeled with - - PRIOR ART - -. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

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INFORMATION ON HOW TO EFFECT DRAWING CHANGES

Replacement Drawing Sheets

Drawing changes must be made by presenting replacement sheets which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments section, or remarks, section of the amendment paper. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). A replacement sheet must include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and within the top margin.

Annotated Drawing Sheets

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheet(s) must be clearly labeled as "Annotated Sheet" and must be presented in the amendment or remarks section that explains the change(s) to the drawings.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

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Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 4. Claims 24-27 and 42-46 are rejected under 35 U.S.C. 101 because the claimed invention is directed merely to a computer program which is a non-statutory subject matter. These claims do not produce any tangible results.
- 5. Claims 24 and 42 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. For example, (see page 12, paragraph (0033) of the specification), "Computer software programs which are stored in a computer readable medium and executed by a computer processing system" are critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Claims 25-27 and 43-46 are also rejected because they dependent upon the rejected base claims.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 15-18, 24-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant admitted prior art (hereafter referred to AAPA) in view of Cox (6,873,185).

As per claims 15-18, the AAPA discloses a plurality of flip-flops are connected into several chains, called scan chains, which are usually accessed through test pins, as shown in Figure 1, paragraph (0004). The AAPA does not disclose logically associating each pin of a first group to each pin of a second group. However, Cox discloses logically associating each pin of a first group to each pin of a second group (col. 5, lines 48-67 to col. 6, lines 1-8). Wherein logically associating comprises performing an exclusive OR operation (col. 6, lines 1-8). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to incorporate the ExOR matrix as taught by Cox into the invention of the AAPA in order to logically associating pins of each group through an ExOR matrix. The advantage of Cox is a highly effective and complex macro-cell is used and variation of complex logic cells can be obtained.

As per claims 24-27, 28-31, 32-36, 37-41 and 42-46 are rejected under similar rationale as set forth in claims 15-18.

- 8. Applicant's arguments with respect to claims 15-18 and 24-27 have been considered but are most in view of the new ground(s) of rejection.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung My Chung whose telephone number is 571-272-3818. The examiner can normally be reached on Monday to Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-jacques can be reached on 571-272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phung Mx Chung

Primaty Patent Examiner

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